



(51) International Patent Classification:

A61K 31/5575 (2006.01) A61P 17/08 (2006.01)
A61P 17/14 (2006.01)

(21) International Application Number:

PCT/US2010/055712

(22) International Filing Date:

5 November 2010 (05.11.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/259,368 9 November 2009 (09.11.2009) US

(71) Applicant (for all designated States except US): **ALLERGAN, INC.** [US/US]; 2525 Dupont Drive, Irvine, California 92612 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TROGDEN, John T.** [US/US]; 18671 Cerro Villa Drive, Villa Park, California 92861 (US). **SALAMEH, Adnan** [US/US]; 23 Fairside, Irvine, California 92614 (US). **PUJARA, Chetan P.** [IN/US]; 6 Wheeler, Irvine, California 92620 (US).

(74) Agents: **WURST, John et al.**; Allergan, Inc., 2525 Dupont Drive, Irvine, California 92612 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

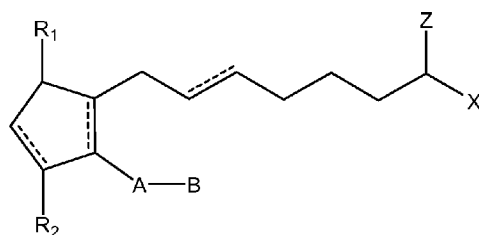
Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: COMPOSITIONS AND METHODS FOR STIMULATING HAIR GROWTH



(I)

(57) Abstract: Methods and compositions for stimulating the growth of hair are disclosed wherein said compositions include a cyclopentane heptanoic acid, 2-cycloalkyl or arylalkyl compound represented by the formula (I) wherein the dashed bonds represent the presence or absence of a double bond which can be in the cis or trans configuration and A, B, Z, X, R₁ and R₂ are as defined in the specification and a penetration enhancer. Such compositions are used in stimulating hair growth of human or non-human animals.